



09/674035

SEQUENCE LISTING

<110> Lang, Jas

<120> Detecting the Expression of the DESC1 Gene in Squamous Cell Carcinoma

<130> 22727/04078

<140> 09/674,035

<141> 1999-11-11

<150> PCT/IB99/01818

<151> 1999-11-11

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<170> PatentIn version 3.0

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Pro Trp Val Ile Gly Leu Val Ile Phe Ile Ser Leu Ile Val Leu Ala

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gtg tgc att gga ctc act gtt cat tat gtg aga tat aat caa aag aag

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Val Cys Ile Gly Leu Thr Val His Tyr Val Arg Tyr Asn Gln Lys Lys

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acc tac aat tac tat agc aca ttg tca ttt aca act gac aaa cta tat
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Thr Tyr Asn Tyr Tyr Ser Thr Leu Ser Phe Thr Thr Asp Lys Leu Tyr

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gct gag ttt ggc aga gag gct tct aac aat ttt aca gaa atg agc cag
240

Ala Glu Phe Gly Arg Glu Ala Ser Asn Asn Phe Thr Glu Met Ser Gln

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aga ctt gaa tca atg gtg aaa aat gca ttt tat aaa tct cca tta agg
288

Arg Leu Glu Ser Met Val Lys Asn Ala Phe Tyr Lys Ser Pro Leu Arg

85

90

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gaa gaa ttt gtc aag tct cag gtt atc aag ttc agt caa gac aag cat
336

Glu Glu Phe Val Lys Ser Gln Val Ile Lys Phe Ser Gln Asp Lys His

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gga gtg ttg gct cat atg ctg ttg att tgt aga ttt cac tct act gag
384

Gly Val Leu Ala His Met Leu Leu Ile Cys Arg Phe His Ser Thr Glu

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120

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gat cct gaa act gta gat aaa att gtt caa ctt gtt tta cat gaa aag
432

Asp Pro Glu Thr Val Asp Lys Ile Val Gln Leu Val Leu His Glu Lys

130

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ctg caa gat gct gta gga ccc cct aaa gta gat cct cac tca gtt aaa
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Leu Gln Asp Ala Val Gly Pro Pro Lys Val Asp Pro His Ser Val Lys

145 150 155 160

att aaa aaa atc aac aag aca gaa aca gac agc tat cta aac cat tgc
528

Ile Lys Lys Ile Asn Lys Thr Glu Thr Asp Ser Tyr Leu Asn His Cys

165 170 175

tgc gga aca cga aga agt aaa act cta ggt cag agt ctc agg atc gtt
576

Cys Gly Thr Arg Arg Ser Lys Thr Leu Gly Gln Ser Leu Arg Ile Val

180 185 190

ggg gga aca gaa gta gaa gag ggt gaa tgg ccc tgg cag gct agc ctg
624

Gly Gly Thr Glu Val Glu Glu Gly Glu Trp Pro Trp Gln Ala Ser Leu

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768

Arg Trp Thr Ala Ser Phe Gly Val Thr Ile Lys Pro Ser Lys Met Lys

245 250 255

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Arg Gly Leu Arg Arg Ile Ile Val His Glu Lys Tyr Lys His Pro Ser

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265

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864

His Asp Tyr Asp Ile Ser Leu Ala Glu Leu Ser Ser Pro Val Pro Tyr

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912

Thr Asn Ala Val His Arg Val Cys Leu Pro Asp Ala Ser Tyr Glu Phe

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caa cca ggt gat gtg atg ttt gtg aca gga ttt gga gca ctg aaa aat
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Gln Pro Gly Asp Val Met Phe Val Thr Gly Phe Gly Ala Leu Lys Asn

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gat ggt tac agt caa aat cat ctt cga caa gca cag gtg act ctc ata
1008

Asp Gly Tyr Ser Gln Asn His Leu Arg Gln Ala Gln Val Thr Leu Ile

325

330

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Asp Ala Thr Thr Cys Asn Glu Pro Gln Ala Tyr Asn Asp Ala Ile Thr

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1104

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1152

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Trp Tyr Leu Ala Gly Ile Val Ser Trp Gly Asp Glu Cys Ala Lys Pro

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aac aag cct ggt gtt tat act aga gtt acg gcc ttg cgg gac tgg att

1248

Asn Lys Pro Gly Val Tyr Thr Arg Val Thr Ala Leu Arg Asp Trp Ile

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Thr Ser Lys Thr Gly Ile

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Val Cys Ile Gly Leu Thr Val His Tyr Val Arg Tyr Asn Gln Lys Lys

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Thr Tyr Asn Tyr Tyr Ser Thr Leu Ser Phe Thr Thr Asp Lys Leu Tyr

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Ala Glu Phe Gly Arg Glu Ala Ser Asn Asn Phe Thr Glu Met Ser Gln
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Glu Glu Phe Val Lys Ser Gln Val Ile Lys Phe Ser Gln Asp Lys His
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Gly Val Leu Ala His Met Leu Leu Ile Cys Arg Phe His Ser Thr Glu
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Asp Pro Glu Thr Val Asp Lys Ile Val Gln Leu Val Leu His Glu Lys
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Leu Gln Asp Ala Val Gly Pro Pro Lys Val Asp Pro His Ser Val Lys
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Ile Lys Lys Ile Asn Lys Thr Glu Thr Asp Ser Tyr Leu Asn His Cys
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Cys Gly Thr Arg Arg Ser Lys Thr Leu Gly Gln Ser Leu Arg Ile Val
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Gly Gly Thr Glu Val Glu Glu Gly Glu Trp Pro Trp Gln Ala Ser Leu
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Gln Trp Asp Gly Ser His Ala Cys Gly Ala Thr Leu Ile Asn Ala Thr
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Trp Leu Val Ser Ala Ala His Cys Phe Thr Thr Tyr Lys Asn Pro Ala
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Arg Trp Thr Ala Ser Phe Gly Val Thr Ile Lys Pro Ser Lys Met Lys
245 250 255

Arg Gly Leu Arg Arg Ile Ile Val His Glu Lys Tyr Lys His Pro Ser
 260 265 270

His Asp Tyr Asp Ile Ser Leu Ala Glu Leu Ser Ser Pro Val Pro Tyr
 275 280 285

Thr Asn Ala Val His Arg Val Cys Leu Pro Asp Ala Ser Tyr Glu Phe
 290 295 300

Gln Pro Gly Asp Val Met Phe Val Thr Gly Phe Gly Ala Leu Lys Asn
 305 310 315 320

Asp Gly Tyr Ser Gln Asn His Leu Arg Gln Ala Gln Val Thr Leu Ile
 325 330 335

Asp Ala Thr Thr Cys Asn Glu Pro Gln Ala Tyr Asn Asp Ala Ile Thr
 340 345 350

Pro Arg Ile Leu Cys Ala Gly Ser Leu Glu Gly Lys Thr Asp Ala Cys
 355 360 365

Gln Gly Asp Ser Gly Gly Pro Leu Val Ser Ser Asp Ala Arg Asp Ile
 370 375 380

Trp Tyr Leu Ala Gly Ile Val Ser Trp Gly Asp Glu Cys Ala Lys Pro
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Thr Ser Lys Thr Gly Ile
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Pro Trp Val Ile Gly Leu Val Met Phe Ile Ser Leu Ile Val Leu Ala
20 25 30

gtg tgc att gga gtc act gtt cat tat gtg aga tat aat caa aag aag
144
Val Cys Ile Gly Val Thr Val His Tyr Val Arg Tyr Asn Gln Lys Lys
35 40 45

acc tac aat tac tat agc aca ttg tca ttt aca act gac aaa cta tat
192
Thr Tyr Asn Tyr Tyr Ser Thr Leu Ser Phe Thr Thr Asp Lys Leu Tyr
50 55 60

gct gag ttt ggc aga gag gct tct aac aat ttt aca gaa atg agc cag
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Ala Glu Phe Gly Arg Glu Ala Ser Asn Asn Phe Thr Glu Met Ser Gln
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Arg Leu Glu Ser Met Val Lys Asn Ala Phe Tyr Lys Ser Pro Leu Arg
85 90 95

gaa gaa ttt gtc aag tct cag gtt atc aag ttc agt caa cag aag cat
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Glu Glu Phe Val Lys Ser Gln Val Ile Lys Phe Ser Gln Gln Lys His

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gga gtg ttg gct cat atg ctg ttg att tct aga ttt cac tct act gag
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Gly Val Leu Ala His Met Leu Leu Ile Ser Arg Phe His Ser Thr Glu

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gat cct gaa act gta gat aaa att gtt caa ctt gtt tta cat gaa aag
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Asp Pro Glu Thr Val Asp Lys Ile Val Gln Leu Val Leu His Glu Lys

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ctg caa gat gct gta gga ccc cct aaa gta gat cct cac tca gtt aaa
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Leu Gln Asp Ala Val Gly Pro Pro Lys Val Asp Pro His Ser Val Lys

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Ile Lys Lys Ile Asn Lys Thr Glu Thr Asp Ser Tyr Leu Asn His Cys

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tgc gga aca cga aga agt aaa act cta ggt cag agt ctc agg atc gtt
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Cys Gly Thr Arg Arg Ser Lys Thr Leu Gly Gln Ser Leu Arg Ile Val

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| Gln Trp Asp Gly Ser His Arg Cys Gly Ala Thr Leu Ile Asn Ala Thr | | |
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| Trp Leu Val Ser Ala Ala His Cys Phe Thr Thr Tyr Lys Asn Pro Ala | | |
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| aga tgg act gct tcc ttt gga gta aca ata aaa cct tcg aaa atg aaa 768 | | |
| Arg Trp Thr Ala Ser Phe Gly Val Thr Ile Lys Pro Ser Lys Met Lys | | |
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| Arg Gly Leu Arg Arg Ile Ile Val His Glu Lys Tyr Lys His Pro Ser | | |
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| His Asp Tyr Asp Ile Ser Leu Ala Glu Leu Ser Ser Pro Val Pro Tyr | | |
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| aca aat gca gta cat aga gtt tgt ctc cct gat gca tcc tat gag ttt 912 | | |
| Thr Asn Ala Val His Arg Val Cys Leu Pro Asp Ala Ser Tyr Glu Phe | | |
| 290 | 295 | 300 |
| caa cca ggt gat gtg atg ttt gtg aca gga ttt gga gca ctg aaa aat 960 | | |
| Gln Pro Gly Asp Val Met Phe Val Thr Gly Phe Gly Ala Leu Lys Asn | | |

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gat ggt tac agt caa aat cat ctt cga caa gca cag gtg act ctc ata
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Asp Gly Tyr Ser Gln Asn His Leu Arg Gln Ala Gln Val Thr Leu Ile

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gac gct aca act tgc aat gaa cct caa gct tac aat gac gcc ata act
1056

Asp Ala Thr Thr Cys Asn Glu Pro Gln Ala Tyr Asn Asp Ala Ile Thr

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cct aga atg tta tgt gct ggc tcc tta gaa gga aaa aca gat gca tgc
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Pro Arg Met Leu Cys Ala Gly Ser Leu Glu Gly Lys Thr Asp Ala Cys

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Gln Gly Asp Ser Gly Gly Pro Leu Val Ser Ser Asp Ala Arg Asp Ile

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Trp Tyr Leu Ala Gly Ile Ala Ser Ser Gly Asp Glu Cys Ala Lys Pro

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aac aag cct ggt gtt tat act aga gtt acg gcc ttg cgg gac tgg att
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Asn Lys Pro Gly Val Tyr Thr Arg Val Thr Ala Leu Arg Asp Trp Ile

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Thr Ser Lys Thr Gly Ile

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Thr Tyr Asn Tyr Tyr Ser Thr Leu Ser Phe Thr Thr Asp Lys Leu Tyr
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Ala Glu Phe Gly Arg Glu Ala Ser Asn Asn Phe Thr Glu Met Ser Gln
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Arg Leu Glu Ser Met Val Lys Asn Ala Phe Tyr Lys Ser Pro Leu Arg
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Glu Glu Phe Val Lys Ser Gln Val Ile Lys Phe Ser Gln Gln Lys His
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Gly Val Leu Ala His Met Leu Leu Ile Ser Arg Phe His Ser Thr Glu
 115 120 125

Asp Pro Glu Thr Val Asp Lys Ile Val Gln Leu Val Leu His Glu Lys
 130 135 140

Leu Gln Asp Ala Val Gly Pro Pro Lys Val Asp Pro His Ser Val Lys
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Ile Lys Lys Ile Asn Lys Thr Glu Thr Asp Ser Tyr Leu Asn His Cys
 165 170 175

Cys Gly Thr Arg Arg Ser Lys Thr Leu Gly Gln Ser Leu Arg Ile Val
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Gly Gly Thr Glu Val Glu Glu Gly Glu Trp Pro Trp Gln Ala Ser Leu
 195 200 205

Gln Trp Asp Gly Ser His Arg Cys Gly Ala Thr Leu Ile Asn Ala Thr
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Trp Leu Val Ser Ala Ala His Cys Phe Thr Thr Tyr Lys Asn Pro Ala
 225 230 235 240

Arg Trp Thr Ala Ser Phe Gly Val Thr Ile Lys Pro Ser Lys Met Lys
 245 250 255

Arg Gly Leu Arg Arg Ile Ile Val His Glu Lys Tyr Lys His Pro Ser
 260 265 270

His Asp Tyr Asp Ile Ser Leu Ala Glu Leu Ser Ser Pro Val Pro Tyr
 275 280 285

Thr Asn Ala Val His Arg Val Cys Leu Pro Asp Ala Ser Tyr Glu Phe
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Gln Pro Gly Asp Val Met Phe Val Thr Gly Phe Gly Ala Leu Lys Asn
 305 310 315 320

Asp Gly Tyr Ser Gln Asn His Leu Arg Gln Ala Gln Val Thr Leu Ile
 325 330 335

Asp Ala Thr Thr Cys Asn Glu Pro Gln Ala Tyr Asn Asp Ala Ile Thr
340 345 350

Pro Arg Met Leu Cys Ala Gly Ser Leu Glu Gly Lys Thr Asp Ala Cys
355 360 365

Gln Gly Asp Ser Gly Gly Pro Leu Val Ser Ser Asp Ala Arg Asp Ile
370 375 380

Trp Tyr Leu Ala Gly Ile Ala Ser Ser Gly Asp Glu Cys Ala Lys Pro
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